CLAIMS

Please enter the following claim amendments.

1. - 38. (cancelled)

- 39. (previously presented) An annular prosthesis for a heart valve comprising a chain having a plurality of links, wherein upon implantation, the prosthesis can reinstate the proper shape and dimensions of the valve annulus, the prosthesis implanted without necessity of suture stabilizers or placation bands.
- 40. (previously presented) The annular prosthesis of Claim 39, wherein upon implantation, the prosthesis generates a saddle-shaped geometry and deforms three-dimensionally, while retaining an approximately constant three-dimensional perimeter.
- 41. (previously presented) The annular prosthesis of Claim 40, wherein upon implantation, the prosthesis has a saddle height to commissural diameter ratio in the range from approximately 0 to approximately 1/3.
- 42. (previously presented) The annular prosthesis of Claim 39, wherein upon implantation, the prosthesis retains an approximately constant three-dimensional perimeter, with a maximum variation in perimeter of less than approximately 10%.
- 43. (previously presented) The annular prosthesis of Claim 42, wherein the maximum variation in perimeter is less than approximately 3%.
- 44. (previously presented) The annular prosthesis of Claim 39, wherein upon implantation, the prosthesis maintains a normal chordal force distribution as its bending is dominated by its mechanical environment.

- 45. (previously presented) An annuloplasty ring for a heart valve comprising a prosthesis, wherein upon implantation, the prosthesis maintains a normal chordal force distribution during the cardiac cycle as its bending is dominated by its mechanical environment.
- 46. (previously presented) An annuloplasty ring for a heart valve comprising a prosthesis, wherein upon implantation, generates a saddle-shape geometry, and deforms three-dimensionally, while retaining an approximately constant three-dimensional perimeter.
- 47. (previously presented) The annuloplasty ring of Claim 46, wherein the prosthesis has a saddle height to commissural diameter ratio in the range from approximately 0 to approximately 33%.
- 48. (previously presented) The annuloplasty ring of Claim 47, wherein the prosthesis has a saddle height to commissural diameter ratio of approximately 25%.
- 49. (previously presented) A supporting prosthesis for repairing pathological alterations of valves of the heart comprising:

a chain having a plurality of links;

shaping means, wherein upon implantation to annulus tissue, the chain generates a variable saddle-shaped geometry during the cardiac cycle, and deforms three-dimensionally, to reconstruct the shape of a valve, while maintaining the dynamics of the valve through appropriate flex and bend as to allow the valve to thereafter function correctly.

- 50. (previously presented) The supporting prosthesis of Claim 49, wherein upon implantation, the chain maintains a normal chordal force distribution as its bending is dominated by its mechanical environment.
- 51. 60. (cancelled)